

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method in a data processing system having at least two partitions, a platform, partition firmware, and abstracted hardware owned by the platform and not owned by the at least two partitions, wherein the method is for generating a notification of an event caused by the abstracted hardware, the method comprising:
 - responsive to detecting a ~~presence of~~ the event caused by the abstracted hardware in [[a]] the platform in the data processing system, storing, by the platform, the event in a queue associated with the partition firmware before an interrupt is issued;
 - generating, by the platform, [[a]] an external hardware interrupt from an for the event abstracted hardware to an operating system, wherein the platform sends the external hardware interrupt to an operating system operating on a first partition of the at least two partitions;
 - ~~responsive to the presence of the event, storing the event in a partition queue associated with a partition firmware;~~
 - responsive to receiving, by the partition firmware, a request from the operating system to read the external hardware interrupt, providing a source of the event to the operating system;
 - responsive to receiving, by the partition firmware, a request from the operating system to [[check]] query the queue for the external hardware interrupt in the partition firmware, identifying, by the partition firmware, the event in the partition queue; and
 - responsive to identifying the event, processing the event.
2. (Currently Amended) The method of claim 1, wherein ~~[[the]]~~ processing the event ~~[[step]]~~ includes:
 - initiating a corrective action; and
 - sending ~~[[a]]~~ the notification to the operating system.
3. (Original) The method of claim 2, wherein the notification is an informational log.
4. (Currently Amended) The method of claim 1, wherein ~~[[the]]~~ processing the event ~~[[step]]~~ includes:
 - sending an error log to the operating system.

5. (Original) The method of claim 4 further comprising:
responsive to receiving the error log at the operating system, performing by the operating system at least one of a corrective action and a preventative action.
6. (Original) The method of claim 1, wherein the event is one of a thermal event or a power event.
7. (Currently Amended) The method of claim 1, wherein ~~[[the]]~~ processing the event ~~[[step]]~~ results in at least one of backing of data in a memory to a disk, freezing input/output operations, suspending kernel services, and monitoring the platform for additional events.
8. (Currently Amended) The method of claim 1, wherein the event has an event type and wherein ~~partition~~ the queue is associated with the event type.
9. (Currently Amended) The method of claim 1, wherein ~~the data processing system is a logical partitioned data processing system having a plurality of partitions in which each partition of the at least two partitions~~ includes the operating system.
10. (Canceled)
11. (Currently Amended) A data processing system, having at least two partitions, a platform, partition firmware, and abstracted hardware owned by the platform and not owned by the at least two partitions, wherein the data processing system is for generating a notification of an event, the data processing system comprising:
generating means, responsive to detecting ~~a presence of the event~~ caused by the abstracted hardware in [[a]] the platform in the data processing system, for generating by the platform [[a]] an external hardware interrupt for the event, to an operating system wherein the platform sends the external hardware interrupt to an operating system operating on a first partition of the at least two partitions;
storing means, responsive to ~~the presence of the event~~, for storing the event by the platform in a partition queue associated with [[a]] the partition firmware before an interrupt is issued;
providing means, responsive to receiving, by the partition firmware, a request from the operating system to read the external hardware interrupt, for providing a source of the event to the operating system;

identifying means, responsive to receiving, by the partition firmware, a request from the operating system to ~~[[check]] query the queue for the external hardware interrupt in the partition firmware~~, for identifying, by the partition firmware, the event in the ~~partition~~ queue; and
processing means, responsive to identifying the event, for processing the event.

12. (Currently Amended) The data processing system of claim 11, wherein the processing means includes:

initiating means for initiating a corrective action; and
sending means for sending ~~[[a]]~~ the notification to the operating system.

13. (Original) The data processing system of claim 12, wherein the notification is an informational log.

14. (Original) The data processing system of claim 11, wherein the processing means includes:
sending means for sending an error log to the operating system.

15. (Original) The data processing system of claim 14 further comprising:
performing means, responsive to receiving the error log at the operating system, for performing by the operating system at least one of a corrective action and a preventative action.

16. (Original) The data processing system of claim 11, wherein the event is one of a thermal event or a power event.

17. (Original) The data processing system of claim 11, wherein the processing means results in at least one of backing of data in a memory to a disk, freezing input/output operations, suspending kernel services, and monitoring the platform for additional events.

18. (Currently Amended) The data processing system of claim 11, wherein the event has an event type and wherein ~~partition~~ the queue is associated with the event type.

19. (Currently Amended) The data processing system of claim 11, wherein ~~the data processing system is a logical partitioned data processing system having a plurality of partitions in which each partition~~ of the at least two partitions includes the operating system.

20. (Canceled)

21. (Currently Amended) A computer program product in a ~~computer-readable~~ recordable-type medium for generating a notification of an event in a data processing system having at least two partitions, a platform, partition firmware, and abstracted hardware owned by the platform and not owned by the at least two partitions, wherein the event is caused by the abstracted hardware, the computer program product comprising:

first instructions, responsive to detecting ~~a presence of the event~~ caused by the abstracted hardware in ~~[[a]] the platform in the data processing system~~, for storing, by the platform, the event in a queue associated with the partition firmware before an interrupt is issued;

second instructions for generating, by the platform, [[a]] an external hardware interrupt from an for the event abstracted hardware to an operating system, wherein the platform sends the external hardware interrupt to an operating system operating on a first partition of the at least two partitions;

~~second instructions for, responsive to the presence of the event, storing the event in a partition queue associated with a partition firmware~~;

third instructions, responsive to receiving by the partition firmware a request from the operating system to read the external hardware interrupt, for providing a source of the event to the operating system;

~~[[third]]~~ fourth instructions, responsive to receiving by the partition firmware a request from the operating system to ~~[[check]]~~ query the queue for the external hardware interrupt, in the partition firmware, for identifying, by the partition firmware, the event in the ~~partition~~ queue; and

~~fourth~~ fifth instructions for, responsive to identifying the event, processing the event.

22. (Currently Amended) The computer program product of claim 21, wherein the fourth instructions ~~include:~~ includes:

first sub-instructions for initiating a corrective action; and

second sub-instructions for sending ~~[[a]]~~ the notification to the operating system.

23. (Original) The computer program product of claim 22, wherein the notification is an informational log.

24. (Currently Amended) The computer program product of claim 21, wherein the fourth instructions ~~include:~~ includes:

sub-instructions for sending an error log to the operating system.

25. (Currently Amended) The computer program product of claim 24 further comprising:
[[fifth]] sixth instructions, responsive to receiving the error log at the operating system, for performing by the operating system at least one of a corrective action and a preventative action.

26. (Currently Amended) A data processing system comprising:

a platform;

a bus system owned by the platform;

at least two partitions owned by the platform;

partition firmware owned by the platform;

abstracted hardware owned by the platform and not owned by the at least two partitions;

a memory connected to the bus system, wherein the memory includes a set of instructions for generating a notification of an event caused by the abstracted hardware;

and

a processing unit connected to the bus system, wherein the processing unit executes a set of instructions to: [[to]] generate a hardware interrupt to an operating system, in response to detecting a presence of an event in a platform in the data processing system; store the event in a partition queue associated with a partition firmware, in response to the presence of the event; identify the event in the partition queue, in response to receiving a request to check the hardware interrupt in the partition firmware; and process the event, in response to identifying the event.

responsive to detecting the event caused by the abstracted hardware in the platform, storing, by the platform, the event in a queue associated with the partition firmware before an interrupt is issued;

generating, by the platform, an external hardware interrupt for the event, wherein the platform sends the external hardware interrupt to an operating system operating on a first partition of the at least two partitions;

responsive to receiving, by the partition firmware, a request from the operating system to read the external hardware interrupt, providing a source of the event to the operating system;

responsive to receiving, by the partition firmware, a request from the operating system to query the queue for the external hardware interrupt, identifying, by the partition firmware, the event in the queue; and

responsive to identifying the event, processing the event.